Receipt date 209/19/2006

ALTERNATIVE TO PTO/SB/08a/b (07-05)

Complete if Known distitute for form 1449/PTO Application Number 10/542,184 Filing Date (Intl.) January 20, 2004 INFORMATION DISCLOSURE First Named Inventor Alun DAVIES STATEMENT BY APPLICANT Art Unit 1646 (Use as many she ets as necessary) Z. Howard Examiner Name of 3 514712000800 Sheet Attorney Docket Number 1

	U.S. PATENT DOCUMENTS						
Examiner	Cite	Document Number	Publication Date	Name of Patentee or	Pages, Columns, Lines, Where		
Initials*	No.1	Number-Kind Code ² (if known)	MM-DD-YYYY	Applicant of Cited Document	Relevant Passages or Relevant Figures Appear		
	1.	US-5,565,332-A	10-15-1996	Hoogenboom et al.			
	2.	US-5,580,717-A	12-03-1996	Dower et al.			
	3.	US-5,733,743-A	03-31-1998	Johnson et al.			
	4.	US-6,265,150-B1	07-24-2001	Terstappen et al.			

	FOREIGN PATENT DOCUMENTS							
Examiner Initials*	Cite No.1	Foreign Patent Document Country Code ³ -Number ⁴ -Kind Code ⁵ (<i>if known</i>)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	Τ. ⁶		

*EXAMINER: Initial if information considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. ³ Applicant's unique citation designation number (optional). ² See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.

		NON PATENT LITERATURE DOCUMENTS	
Examiner Initials	Cite No.1	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T²
	5.	Amann, R. et al. (1995). "Intraplantar Injection of Nerve Growth Factor into the Rat Hind Paw: Local Edema and Effects on Thermal Nociceptive Threshold," <i>Pain</i> 64:323-329.	
	6.	Andreev, N.Y. et al. (1995). "Peripheral Administration of Nerve Growth Factor in the Adult Rat Produces a Thermal Hyperalgesia that Requires the Presence of Sympathetic Post-Ganglionic Neurones," <i>Pain</i> 63:109-115.	
	7.	Bischoff, S.C. et al. (May 15, 1992). "Effect of Nerve Growth Factor on the Release of Inflammatory Mediators by Mature Human Basophils," <i>Blood</i> 79(10):2662-2669.	
	8.	Bonini, S. et al. (October 1996). "Circulating Nerve Growth Factor Levels are Increased in Humans With Allergic Diseases and Asthma," <i>Proc. Natl. Acad. Sci. USA</i> 93:10955-10960.	
	9.	Bracci Laudiero, L. et al. (1992). "Multiple Sclerosis Patients Express Increased Levels of ß-Nerve Growth Factor in Cerebrospinal Fluid," <i>Neurosci Lett.</i> 147:9-12.	
	10.	Bracci-Laudiero, L. et al. (May 1993). "Increased Levels of NGF in Sera of Systemic Lupus Erythematosus Patients," <i>Neuroreport</i> 4(5):563-565.	
	11.	Braun, A. et al. (1998). "Role of Nerve Growth Factor in a Mouse Model of Allergic Airway Inflammation and Asthma," <i>Eur. J. Immunol.</i> 28:3240-3251.	
	12.	Broude, N.E. et al. (June 2002). "Stem-loop Oligonucleotides: A Robust Tool for Molecular Biology and Biotechnology," <i>Trends in Biotechnology</i> 20(6):249-256.	
	13.	Carroll, S.L. et al. (October 1992). "Dorsal Root Ganglion Neurons Expressing trk Are Selectively Sensitive to NGF Deprivation In Utero," <i>Neuron</i> 9(4):779-788.	
	14.	Chao, M.V. et al. (April 1986). "Gene Transfer and Molecular Cloning of the Human NGF Receptor," Science 232:518-521.	
	15.	Crowley, C. et al. (March 25, 1994). "Mice Lacking Nerve Growth Factor Display Perinatal Loss of Sensory and Sympathetic Neurons yet Develop Basal Forebrain Cholinergic Neurons," <i>Cell</i> 76:1001-1011.	
	16.	Davies, A.M. et al. (November 1993). "Neurotrophin-4/5 Is a Mammalian-Specific Survival Factor for Distinct Populations of Sensory Neurons," <i>The Journal of Neuroscience</i> 13(11):4961-4967.	

Examiner	Date	00/19/2000
Signature /Zachary Howard/	Considered	02/18/2009

Receipt date: 09/19/2006 10542184 - GAU: 1646

ALTERNATIVE TO PTO/SB/08a/b (07-05)

)			Complete if Known		
St	bstitute for form 1449/P	10		Application Number	10/542,184	
ı	NFORMATION	ON DISC	OSURE	Filing Date	(Intl.) January 20, 2004	
_	STATEMEN			First Named Inventor	Alun DAVIES	
•	JIA! ENLEN	ואוםו	LIOAITI	Art Unit	1646	
	(Use as many sheets as necessary)			Examiner Name	Z. Howard	
Sheet	2	of	3	Attomey Docket Number	514712000800	

	17.	Di Marco, E. et al. (October 25, 1993). "Nerve Growth Factor Binds to Normal Human	
		Keratinocytes Through High and Low Affinity Receptors and Stimulates Their Growth by a	
		Novel Autocrine Loop," <i>J. Biol. Chem.</i> 268(30):22838-22846.	
	18.	DiStefano, P.S. et al. (May 1992). "The Neurotrophins BDNF, NT-3, and NGF Display Distinct	
		Patterns of Retrograde Axonal Transport in Peripheral and Central Neurons," <i>Neuron</i>	
		8(5):983-993.	
	19.	Dyck, P.J. et al. (1997). "Intradermal Recombinant Human Nerve Growth Factor Induces	
	' ' '	Pressure Allodynia and Lowered Heat-Pain Threshold in Humans," <i>Neurology</i> 48:501-505.	
	20.	Falcini, F. et al. (1996). "Increased Circulating Nerve Growth Factor is Directly Correlated with	
	20.	Disease Activity in Juvenile Chronic Arthritis," <i>Ann. Rheum. Dis.</i> 55:745-748.	
	04	Disease Activity in Juvenile Critonic Artifilis, Alli. Rifetili. Dis. 55.745-746.	
	21.	Hoover, J.E. et al. eds. (1975). Remington's Pharmaceutical Sciences, 15th Edition, Mack	
		Publishing Co.: Easton, PA (Table of Contents Only.)	
	22.	Horigome, K. et al. (July 15, 1993). "Mediator Release from Mast Cells by Nerve Growth	
	<u> </u>	Factor," J. Biol. Chem. 268(20):14881-14887.	
	23.	Indo, Y. (2001). "Molecular Basis of Congenital Insensitivity to Pain With Anhidrosis (CIPA):	
		Mutations and Polymorphisms in TRKA (NTRK1) Gene Encoding the Receptor Tyrosine	
		Kinase for Nerve Growth Factor," Human Mutation 18(6):462-471.	
•	24.	Leon, A. et al. (April 1994). "Mast Cells Synthesize, Store, and Release Nerve Growth Factor,"	
] · · ·	Proc. Natl. Acad. Sci. USA 91:3739-3743.	
	25.	Levison, P.R. et al. (August 7, 1998). "Recent Developments of Magnetic Beads for Use in	
	-0.	Nucleic Acid Purification," <i>J. Chromatogr. A.</i> 816(1):107-111.	
	26.	Lindsay, R.M. (July 1988). "Nerve Growth Factors (NGF, BDNF) Enhance Axonal	
	20.		
		Regeneration But Are Not Required for Survival of Adult Sensory Neurons," <i>J. Neurosci.</i>	
	<u> </u>	8(7):2394-2405.	
	27.	Lindsay, R.M. et al. (January 26, 1989). "Nerve Growth Factor Regulates Expression of	
	1	Neuropeptide Genes in Adult Sensory Neurons," Nature 337:362-364.	
	28.	Matsuda, H. et al. (September 1988). "Nerve Growth Factor Promotes Human Hemopoietic	
	<u> </u>	Colony Growth and Differentiation," Proc. Natl. Acad. Sci. USA 85:6508-6512.	
	29.	McCafferty, J. et al. (December 6, 1990). "Phage Antibodies: Filamentous Phage Displaying	
		Antibody Variable Domains," Nature 348:552-553.	
	30.	McMahon, S.B. et al. (May 1994). "Expression and Coexpression of Trk Receptors in	
		Subpopulations of Adult Primary Sensory Neurons Projecting to Identified Peripheral Targets,"	
		Neuron 12:1161-1171.	
	31.	Miura, Y. et al. (January 2000). "Mutation and Polymorphism Analysis of the TRKA (NTRK1)	
		Gene Encoding a High-Affinity Receptor for Nerve Growth Factor in Congenital Insensitivity to	
		Pain with Anhidrosis (CIPA) Families," Human Genetics 106(1):116-124.	
	32.	Mu, X. et al. (September 1993). "Neurotrophin Receptor Genes Are Expressed in Distinct	
	J 2.	Patterns in Developing Dorsal Root Ganglia," <i>J. Neuroscience</i> 13(9):4029-4041.	
	33.		
	ا عن	Otten, U. et al. (1985). "Nerve Growth Factor Induces Plasma Extravasation in Rat Skin," Eur.	
	104	J. Pharmacol. 106:199-201.	
	34.	Otten, U. et al. (December 1989). "Nerve Growth Factor Induces Growth and Differentiation of	
	ļ	Human B Lymphocytes," Proc. Natl. Acad. Sci. USA 86:10059-10063.	
	35.	Pearce, F.L. et al. (1986). "Some Characteristics of Histamine Secretion From Rat Peritoneal	
		Mast Cells Stimulated with Nerve Growth Factor," J. Physiol. 372:379-393.	
	36.	Petty, B.G. et al. (1994). "The Effect of Systemically Administered Recombinant Human Nerve	
		Growth Factor in Healthy Human Subjects," Annals Neurol. 36:244-246.	
	37.	Pezet, S. et al. (July 1, 1999). "Chronic Pain is Associated with Increased TrkA	
		Immunoreactivity in Spinoreticular Neurons," <i>J. Neurosci.</i> 19(13):5482-5492.	
	38.	Raychaudhuri, S.P. et al. (1998). "Psoriatic Keratinocytes Express High Levels of Nerve	
].	Growth Factor," Acta Derm Venereol. 78:84-86.	
	39.	Richardson, P.M. et al. (July 1984). "Uptake of Nerve Growth Factor Along Peripheral and	
	J 39.		
L	i	Spinal Axons of Primary Sensory Neurons," <i>J. Neurosci.</i> 4(7):1683-1689.	

Examiner		Date	
Signature	/Zachary Howard/	Considered	02/18/2009

Receipt date: 09/19/2006 10542184 - GAU: 1646

ALTERNATIVE TO PTO/SB/08a/b (07-05)

				Complete if Known		
Sub	ostitute for form 1449/PTO			Application Number	10/542,184	
IN	NFORMATION	ı Di	SCLOSURE	Filing Date	(Intl.) January 20, 2004	
	TATEMENT			First Named Inventor	Alun DAVIES	
	, , A I E WIE IVI	J.,	ALL LIOAN	Art Unit	1646	
	(Use as many she ets as necess ary)			Examiner Name	Z. Howard	
Sheet	3	of	3	Attorney Docket Number	514712000800	

40.	Richardson, P.M. et al. (October 1986). "The Induction of a Regenerative Propensity in Sensory Neurons Following Peripheral Axonal Injury," <i>J. Neurocyt.</i> 15(5):585-594.	
41.	Smyene, R.J. et al. (March 17, 1994). "Severe Sensory and Sympathetic Neuropathies in Mice Carrying a Disrupted Trk/NGF Receptor Gene," <i>Nature</i> 368:246-249.	
42.	Torcia, M. et al. (May 3, 1996). "Nerve Growth Factor Is an Autocrine Survival Factor for Memory B Lymphocytes," Cell 85:345-356.	_
43.	Tyagi, S. et al. (January 1998). "Multicolor Molecular Beacons for Allele Discrimination," Nature Biotechnology 16:49-53.	
44.	Ueyama, T. et al. (1993). "Production of Nerve Growth Factor by Cultured Vascular Smooth Muscle Cells From Spontaneously Hypertensive and Wistar-Kyoto Rats," <i>J. Hypertens</i> . 11:1061-1065.	
45.	Verge, V.M.K. et al. (March 1989). "Nerve Growth Factor Receptors on Normal and Injured Sensory Neurons," <i>J. Neurosci.</i> 9(3):914-922.	
46.	Verge, V.M.K. et al. (October 1989). "Histochemical Characterization of Sensory Neurons with High-Affinity Receptors for Nerve Growth Factor," <i>J. Neurocyt.</i> 18(5):583-591.	
47.	Verge, V.M.K. et al. (June 1990). "Influence of Nerve Growth Factor on Neurofilament Gene Expression in Mature Primary Sensory Neurons," <i>J. Neurosci.</i> 10(6):2018-2025.	
48.	Verge, V.M.K. et al. (October 1992). "Colocalization of NGF Binding Sites, trk mRNA, and Low-Affinity NGF Receptor mRNA in Primary Sensory Neurons: Responses to Injury and Infusion of NGF," <i>J. Neurosci.</i> 12(10):4011-4022.	
49.	Winter, G. et al. (1994). "Making Antibodies by Phage Display Technology," <i>Annu. Rev. Immunol.</i> 12:433-455.	
50.	Wittwer, C.T. et al. (December 2001). "Real-Time Multiplex PCR Assays," <i>Methods</i> 25(4):430-442.	
51.	Wright, D.E. et al. (January 16, 1995). "Neurotrophin Receptor mRNA Expression Defines Distinct Populations of Neurons in Rat Dorsal Root Ganglia," <i>J. Comp. Neurol.</i> 351(3):329-338.	

^{*}EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Examiner		Date
Signature	/Zachary Howard/	Considered 02/18/2009

¹Applicant's unique citation designation number (optional). ²Applicant is to place a check mark here if English language Translation is attached.